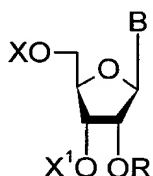


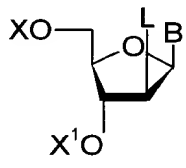
Amendments to the Claims:

The following claims will replace all prior versions of the claims in this application (in the unlikely event that no claims follow herein, the previously pending claims will remain):

1. (Currently amended) A process for the preparation of a compound of formula (1):



which comprises reacting a compound of formula (2):



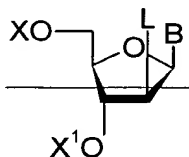
with a compound of formula $Al(OR)_3$, under substantially anhydrous conditions wherein:

X, and X^1 ~~X~~ are each independently H or a protecting group;

B is a base nucleobase; and

R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, each of which may be optionally unsubstituted or substituted by one or more of halogen or amino substituents; and

which comprises reacting a compound of formula (2):



wherein

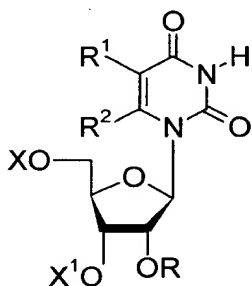
L is a leaving group; and

B, X and X^1 ~~X~~ are as defined above

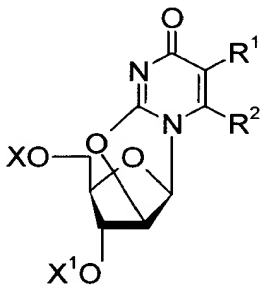
with a compound of formula $Al(OR)_3$ wherein R is as defined above, under substantially anhydrous conditions.

2. (Currently amended) A process according to claim 1, wherein the leaving group is selected from the group consisting of $-\text{OSO}_2\text{CH}_3$, $-\text{OSO}_2\text{CF}_3$, Cl, Br, I, O-Mesyl, O-Brosyl, O-Tosyl and the base nucleobase, B, chemically bonded to the 2'-position, via an oxygen or sulphur atom or a moiety of formula $-\text{NR}^x-$, wherein R^x is H or a C_{1-6} alkyl or an aryl group.

3. (Currently amended) A process for the preparation of a compound of formula (3):



which comprises reacting a compound of formula (4)



with a compound of formula $\text{Al}(\text{OR})_3$, under substantially anhydrous conditions

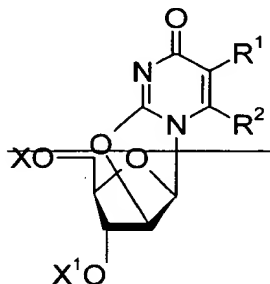
wherein:

X , and X^1 are each independently H or a protecting group;

R^1 and R^2 are each independently H, alkyl, alkenyl, alkynyl, or halogen; and

R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, each of which may be optionally unsubstituted or substituted by one or more of halogen or amino substituents

which comprises the reaction of a compound of formula (4)



wherein

~~X, X', X¹, R¹ and R² are as defined above;~~

~~with a compound of formula Al(OR)₃ wherein R is as defined above, under substantially anhydrous conditions.~~

4. (Original) A process according to claim 3, wherein R¹ and R² are both H, or R¹ is C₁₋₄ alkyl, and R² is H.

5. (Currently amended) A process according to ~~any preceding claim 1 or claim 3~~, wherein R is a C₁₋₄ alkenyl group, a C₁₋₄ alkyl group, a C₁₋₄ alkoxyC₁₋₄ alkyl group or a C₁₋₄ alkynyl group.

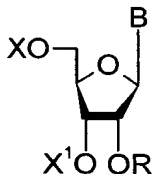
6. (Original) A process according to claim 5, wherein R is a methoxyethyl group.

7. (Currently amended) A process according to claim 1 for the preparation of a compound of Formula (1) wherein B represents cytosine, or a substituted derivative thereof, which comprises:

- a) preparing a said compound of Formula (1) wherein B represents uracil, or a substituted derivative thereof, ~~by a process according to claim 1;~~ and
- b) converting the uracil moiety to the equivalent cytosine moiety; ~~or~~
- e) ~~preparing a compound of Formula (3) by a process according to claim 2; and~~
- d) ~~converting the uracil moiety therein to a cytosine moiety.~~

8. (Currently amended) A process for the preparation of a product oligonucleotide which comprises the coupling to a nucleoside or an oligonucleotide of a compound prepared by a process according to any one ~~preceding claim~~ of claims 1, 3, 7 or 9.

9. (New) A process for the preparation of a compound of Formula (1)



wherein X and X¹ are each, independently, H or a protecting group;

R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, each of which may be unsubstituted or substituted by one or more of halogen or amino substituents; and

B represents cytosine, or a substituted derivative thereof;

which comprises

- a) preparing a compound of formula (3), by a process according to claim 3; and
- b) converting the uracil moiety to the equivalent cytosine moiety.

10. (New) A process according to claim 1 or claim 3, wherein X and X¹ each represent H.

11. (New) A process according to claim 1 or claim 3, wherein at least one of X and X¹ represent said protecting group.

12. (New) A process according to claim 11, wherein the protecting group or groups are selected from the group consisting of acid labile protecting groups, acid-labile acetal protecting groups; and base labile-protecting groups.

13. (New) A process according to claim 1, wherein the leaving group L is selected from the group consisting of -OSO₂CH₃, -OSO₂CF₃, Cl, Br, I, O-Mesyl, O-Brosyl, and O-Tosyl.

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14. (New) A process according to claim 1, wherein the leaving group L is a pyrimidine.
